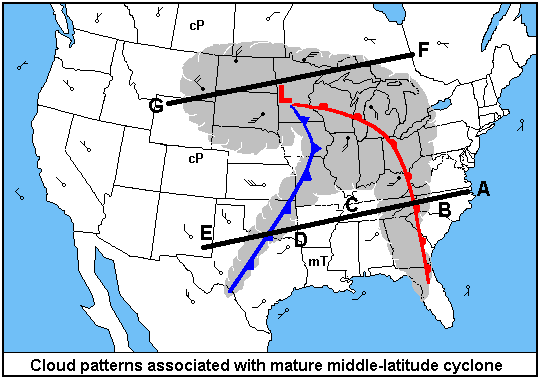
Picture1Quiz

1. What causes a low pressure system to create clouds and sometimes precipitation?

2. What type of front can be found close to point D?

3. What type of weather will be expected as the front from point D comes through our area?

4. What type of front can be found close to B?

5. Which type of front would you expect to have greater precipitation, but be short lived as the front passes? (cold or warm front)

6. What is the important weather word that refers to the transfer of heat?

7. There are lots of clouds and rain near the equator. Knowing this information, you could conclude that air near the equator tends to\_\_\_\_\_ ( rise or fall ).

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ causes air and water vapor molecules to be pushed to the right to the north of the equator.

9. Which of the weather highways usually controls our weather? (Trade Winds, Westerlies, Maritime Polar, Easterlies)

10. Warm air holds ( more or less ) moisture than cold air?

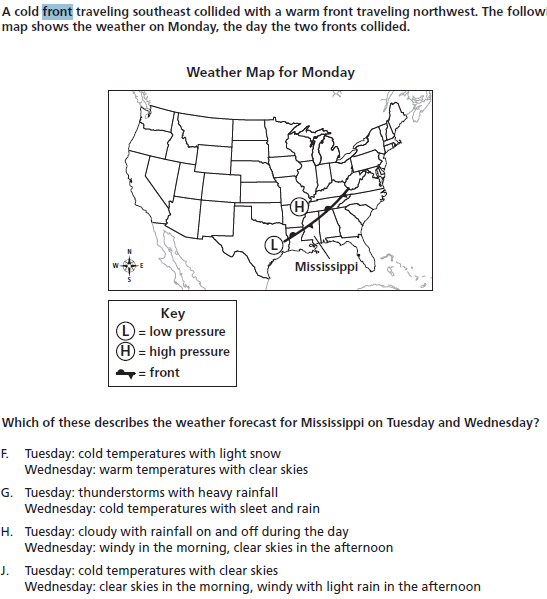
11. Cool air holds ( more or less ) moisture than warm air?

12. If there is a big H (high pressure) on the weather map where you live, would you expect clear skies or stormy weather?

13. If there is a big L (low pressure) on the weather map where you live, would you expect clear skies or stormy weather?

14. The Westerlies are a global wind pattern that helps determine the directional path our weather takes in the United States. Which direction do the Westerlies blow?  
 a. east to west  
 b. west to east  
 c. north to south  
 d. south to north

15. A meteorologist is monitoring the weather around Capital City. She collects the following data from her weather instruments: • Air pressure dropping quickly • Warm air rising rapidly • Water droplets being pushed upward to the topmost part of a cumulonimbus cloud • Doppler radar map shows pockets of air with the wind blowing in opposite directions   
Based on the weather data, what should the meteorologist include in the weather forecast for the Capital City area?  
 a. Increasing humidity with light rain  
 b. Drop in air temperature with light snow  
 c. Tornado watch with heavy rain and hail  
 d. Approaching hurricane with heavy rain and strong winds

16.

17. You have two containers that are the same size and volume filled with two different substances. One is filled with sugar, and one is filled with flour. The mass of the sugar is 4 grams. The mass of the flour is 2.5 grams. Which is of the two is more dense?

a. the flour

b. the sugar  
 c. they are the same density

18. If neither the cold front or the warm front are moving in a forward progessing motion, then we call this what kind of front? (cold, warm, stationary)

19. The weather person’s forecast says, “We can expect lots of rain with this front. After the front clears, temperatures are going to drop.” What kind of front is he talking about? (cold, warm, stationary)

20. Above a continent, a warm air mass slowly passes over a cold air mass. As the warm air begins to cool, clouds form. What will most likely happen next?

a. Rain will fall

b. Hurricanes will form

c. Lightning will strike

d. Hail will form